

Product datasheet for RC211665L3

KSR2 (NM_173598) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: KSR2 (NM_173598) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: KSR2

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

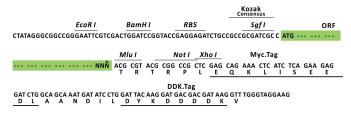
The ORF insert of this clone is exactly the same as(RC211665).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_173598 **ORF Size:** 2763 bp



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KSR2 (NM_173598) Human Tagged Lenti ORF Clone - RC211665L3

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: NM 173598.4, NP 775869.3

RefSeq Size: 17008 bp
RefSeq ORF: 2853 bp
Locus ID: 283455
UniProt ID: Q6VAB6

Cytogenetics: 12q24.22-q24.23

Protein Families: Druggable Genome, Protein Kinase

MW: 104.1 kDa

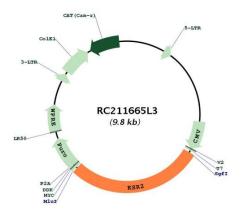
Gene Summary: Location-regulated scaffold connecting MEK to RAF. Has very low protein kinase activity and

can phosphorylate MAP2K1 at several Ser and Thr residues with very low efficiency (in vitro). Interaction with BRAF enhances KSR2-mediated phosphorylation of MAP2K1 (in vitro). Blocks MAP3K8 kinase activity and MAP3K8-mediated signaling. Acts as a negative regulator of MAP3K3-mediated activation of ERK, INK and NF-kappa-B pathways, inhibiting MAP3K3-

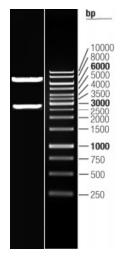
mediated interleukin-8 production.[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for RC211665L3



Double digestion of RC211665L3 using Sgfl and Mlul $\,$